

Title (en)

Method of operating a gas turbo group

Title (de)

Verfahren zum Betrieb einer Gasturbogruppe

Title (fr)

Procédé d'utilisation d'un groupe generateur à turbines à gaz

Publication

EP 0924410 B1 20030924 (DE)

Application

EP 97810993 A 19971217

Priority

EP 97810993 A 19971217

Abstract (en)

[origin: EP0924410A1] A hot air turbo-group (LT) is effectively connected with a heat exchanger (5). In a compressor (7) belonging to the hot air turbo-group, a virtually simulated isotherm compression is undertaken by continuous water injection (24). The injected water after expansion (5) through condensation (19) is collected in a separator (10). The collected water (22) for injection (24) is fed back into the compressor (7). A part of the air (20) coming from the separator is introduced into the suction air (13) of a compressor (1) of the gas turbo-group (GT) and/or into the process air of a flow machine (4) belonging to the gas-turbo group.

IPC 1-7

F02C 7/143; F02C 1/00; F02C 1/10; F02C 6/18

IPC 8 full level

F01K 21/04 (2006.01); **F01K 23/10** (2006.01); **F02C 1/00** (2006.01); **F02C 1/10** (2006.01); **F02C 6/18** (2006.01); **F02C 7/143** (2006.01)

CPC (source: EP US)

F01K 21/04 (2013.01 - EP US); **F02C 1/007** (2013.01 - EP US); **F02C 1/10** (2013.01 - EP US); **F02C 6/18** (2013.01 - EP US); **F02C 7/1435** (2013.01 - EP US); **Y02E 20/16** (2013.01 - EP US)

Cited by

EP1287246A4; WO0008326A3; US6470668B2; US6470667B1; US6484508B2; EP3061919A1; US10100661B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0924410 A1 19990623; **EP 0924410 B1 20030924**; CN 1123683 C 20031008; CN 1220341 A 19990623; DE 59710790 D1 20031030; JP H11257023 A 19990921; US 6178735 B1 20010130

DOCDB simple family (application)

EP 97810993 A 19971217; CN 98125589 A 19981217; DE 59710790 T 19971217; JP 35905198 A 19981217; US 20883098 A 19981210